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ReDi 220 MP

HD DVB-T MPEG4 Receiver

User Manual

1. SAFETY INFORMATION

This sheet lists important safety information that will help to assure proper use of the product. Please read them carefully before operation of your product.

TO REDUCE THE RISK OF FIRE AND ELECTRIC SHOCK, DO NOT EXPOSE THIS UNIT TO RAIN OR MOISTURE.

1. To prevent electric shock do not attempt opening or removing the covers of the device. The device uses AC220~240V and you may be expose to dangerous voltage.

2. To clean the device always unplug the product from the wall outlet. Do not use liquid cleaners or aerosol cleaners. Use a dry cloth for cleaning.

3. You will notice that the product has slots and openings. These are used for ventilation to ensure reliable operation and to protect it from overheating. The openings should never be blocked by other devices. This product should not be placed in an installation, unless proper ventilation is provided. Do not put anything above the product because you will block the ventilation openings causing the device to overheat.

4.The product should be situated away from heat sources such as radiators, heat registers, stoves, or other products (including amplifiers) that produce heat.

Service

Do not attempt to service this product yourself, as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

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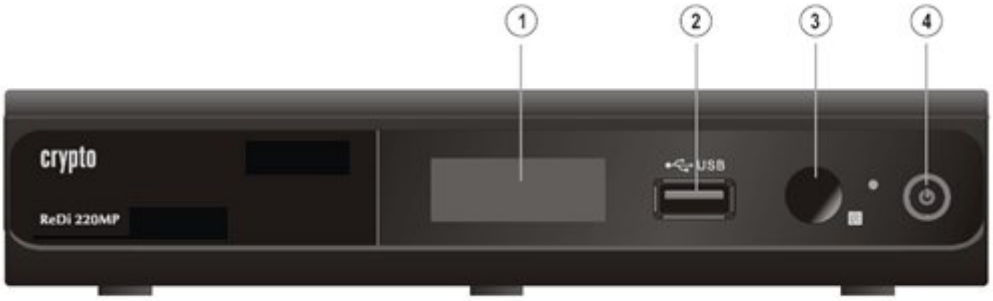
3. INTRODUCTION

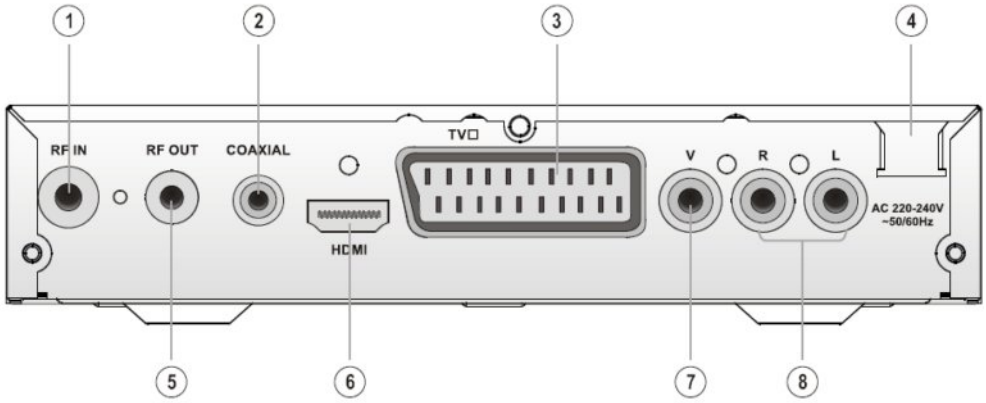
3.1 About ReDi 220MP

3.1.1 Front panel



1. Display
2. USB port
3. Remote sensor
4. Standby button

3.1.2 Rear panel



1. TV aerial for an external TV aerial
2.Coaxial Digital Audio
3. TV Scart for connection to the TV
4. AC Mains
5. RF Loop through for an external device
6. HDMI Output
7. Composite Video
8. Down Mix Audio 2 Channel L/R

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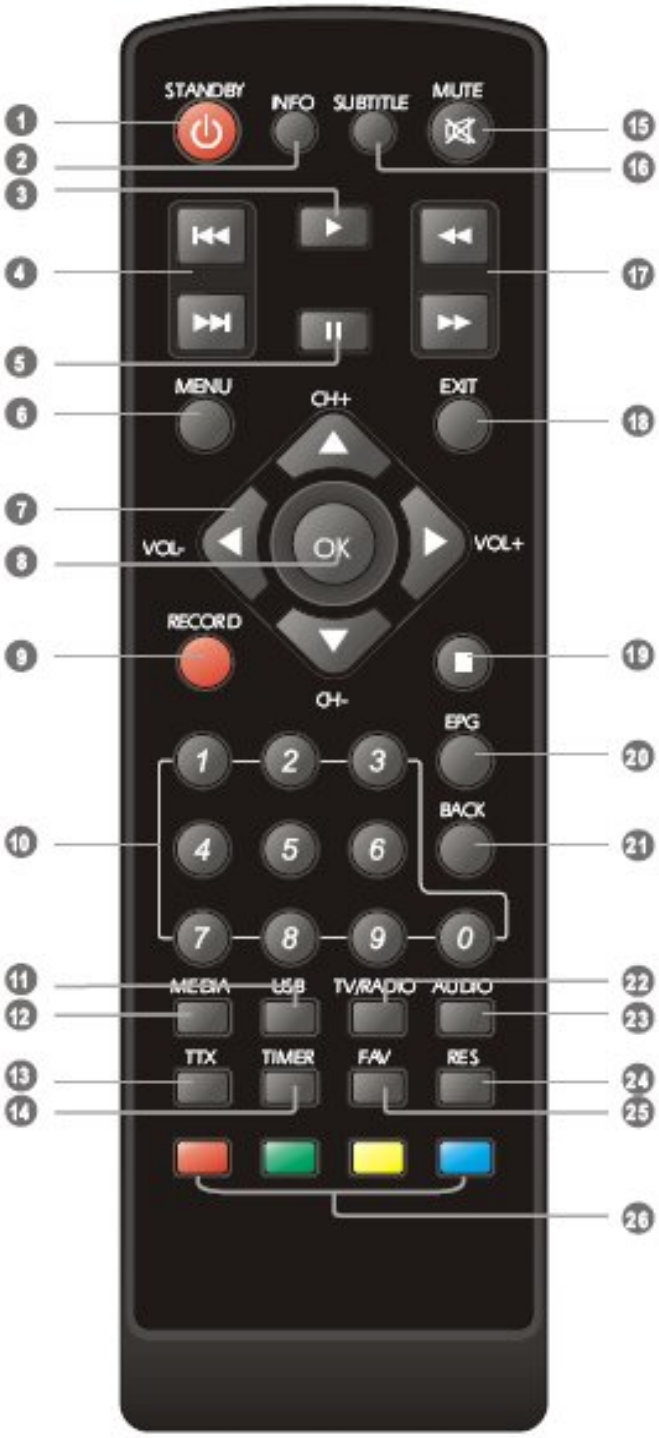
3.2 Remote control



1. STANDBY (switch the device on and standby)
2. INFO (Press for current channel information/ Operation guide)
3. PLAY
4. Previous/Next
5. PAUSE (Pause/Active timeshift function)
6. Menu (Open and close the menu screen)
7. Cursor/CH+, -/VOL+,-

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(Cursor: Navigation buttons used to navigate menu's items)
(CH+/-: Channel Up and Down)
(VOL+/-: Volume Up and Down)

8. OK button (Confirm a selection within a menu)
9. RECORD (Record the TV program)
10. Numeric entry (Enter numeric values and select the channel directly by entering it's number)
11. USB (Enter File Manager)
12. MEDIA (Enter Recorder menu)
13. TTX (Open interactive service)
14. TIMER (Timer wake-up)
15. MUTE (Turn off/on the volume)
16. SUBTITLE (On/Off Subtitle)
17. Search backward /forward
18. EXIT (Exit from menu)
19. STOP (Stop program playback or recording)
20. EPG (Open up Electronic Program Guide Menu)
21. BACK (Switch to previous channel)
22. TV/RADIO (Switch between TV and Radio)
23. AUDIO (Select audio mode and audio track)
24. RES (Switch HDMI resolution)
25. FAV (Open the Favorite list)
26. RED/GREEN/YELLOW/BLUE Buttons
(For interactive function/Submenu functions buttons)

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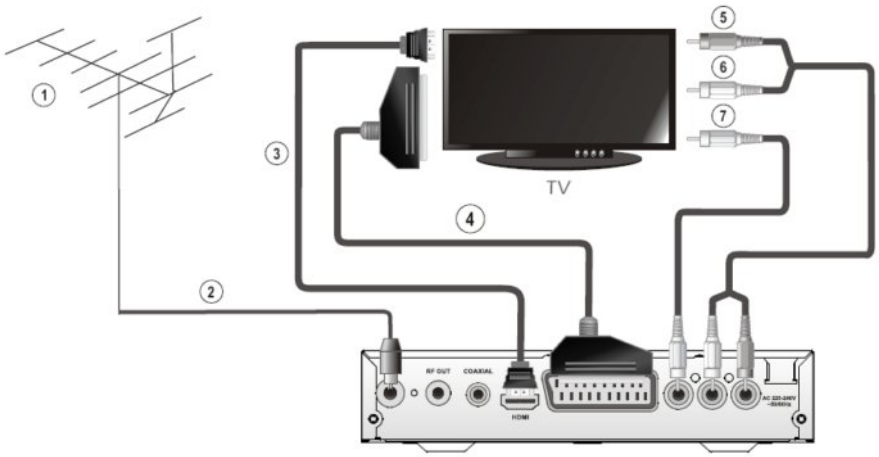
4. SYSTEM & TV CONNECTION

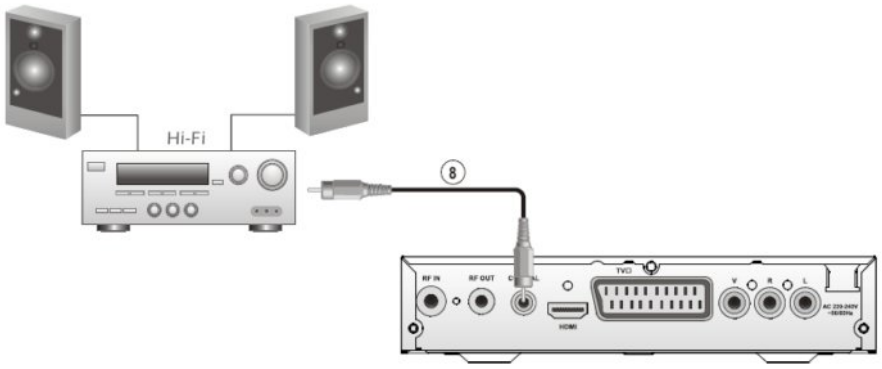
4.1 General

There are many different types of TV and other equipment that you can connect to the device. In this manual you will see some of the most common ways to connect your equipment.

4.2 Connection to the TV



4.3 Connecting a HiFi system



1. Antenna
2. RF cable
3. HDMI cable
4. Scart cable
5. Red
6. White
7. Yellow
8. Coaxial cable

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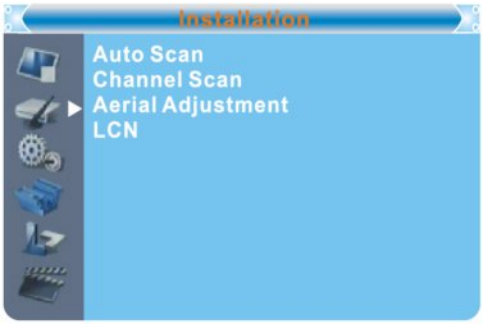
5. GETTING STARTED

5.1 Welcome Srceen

If you use ReDi 220MP for the first time, the "Welcome" menu appears.
Press cursor button to setup the Region, Language, Display Mode and Aspect Mode.
Highlight "OK" and press the "OK" button to start channel search.

5.2 Installation

1. Press the "MENU" button to enter main menu.
2. Press "UP"or " DOWN " button to highlight "Installation", press "RIGHT" button to enter to the Installation menu.
3. Press "UP" or "DOWN" cursor button to highlight the desired item and press "OK" button to enter the sub-menu .
4. Press "EXIT" button to exit.



5.2.1 Auto Scan

1. Select the "Auto Scan", press "OK" button to enter the Auto Scan menu.
2. Press the cursor button to set "FTA Only", then highlight "Search", press the "OK" button to start auto scan .

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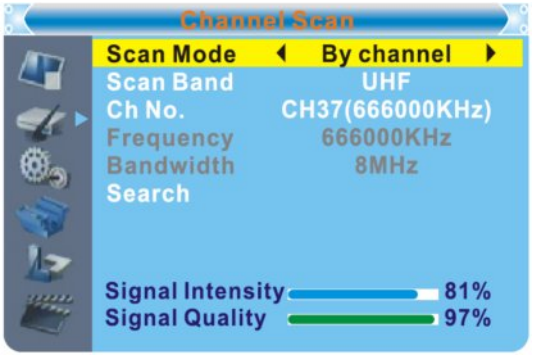
5.2.2 Channel Scan

1. Select "Channel Scan", press the "OK" button to enter the Channel Scan menu.
2. Press cursor button to set Scan mode, Scan Band, Channel No., Frequency and Bandwidth, then highlight "Search", press "OK" button to start channel scan .

Channel Scan mode:

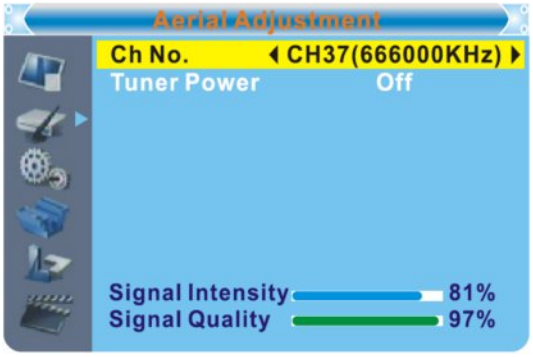
-By channel

-By frequency



5.2.3 Aerial Adjustment

1. Select the "Aerial Adjustment", press"OK" to enter the Aerial Adjustment.
2. Press the cursor button to set the desired setting. When "Tuner Power" is selected "On", the STB will provide 5V power to antenna. It will not provide when selected "Off".



5.2.4 LCN

If LCN(Logical Channel Number) Select function is activated, you can't change the original number of TV channels by scanning .

You can activate/deactivate the LCN function by setting the "LCN Mode" to on/off.

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6. OPERATION

6.1 Changing Channels

There are three ways of channel selection - stepping through the channel list, selection by number and from the on-screen channel list.

1. Stepping through the channel list:

To move through the channel list, press the upward arrow or downward arrow key on the remote control.

2. Selected by number:

Enter the channel number directly by pressing numeric buttons, and press the "OK" button to select desired channel.

3. Selected by on-screen channels list:

You can also select the required channel directly from on-screen channel list. This is displayed using the device main menu. See "Edit Channel" in this manual for operation details.

6.2 Accessing the Electronic Program Guide (EPG)

Accessing the EPG of all channels:

1 Press "EPG" button to enter EPG menu .

2. Press cursor button to switch between channel list, events schedule of the selected channel and now/next events.

3. Press "Green" button to Timer the events.

4. Press "Red" button to display " Time Bar" menu.

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7. EDIT CHANNEL

7.1 Edit Channel menu

1. Press the "MENU" button to enter main menu.
2. Press "UP" or "DOWN " button to highlight "Edit Channel", press "RIGHT" button to enter the Edit Channel menu.
3. Press "UP" or "DOWN" cursor button to highlight the desired item and press "OK" button to enter the sub-menu .
4. Press "EXIT" button to exit.

7.2 TV Channel list

1. In the Edit Channel menu, select "TV Channel List", press "OK" button to enter TV channel list menu.
2. Press "UP" or "DOWN» button to highlight a channel, press the "OK" button to preview the desired TV channel.

- Use this menu to favor, lock, skip, move, sort, delete and rename a channel.

(1) Press "FAV" button, then press "OK" button to edit the FAV function.

(2) Press "color" button, then press "OK" button to edit the corresponding function.

7.3 Radio Channel list

1. In the Edit Channel menu, select "Radio Channel List", press "OK" button to enter the Radio Channel list menu.
2. Press "UP" or "DOWN" button to highlight channel press the "OK" button to

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listen the desired TV channel.
NOTE: Basically, the operation of "Radio Channel List" is the same as "TV Channel List", but there is one point different: In "Radio Channel List" mode, there is no video information, so it will always display Radio's logo in the right side preview window.

7.4 Delete All

1. In the Edit Channel menu, select "Delete All", press "OK" button.
2. A warning window appears.
Select "Yes", press "OK" button to delete all channels.
Select "No", Press "OK" button to cancel deleting.

8. SYSTEM SETUP

8.1 System setup menu

System setup menu allows us to set Language, TV System, Local Time Setting, Timer Setting, Parental Lock, OSD Setting, Favorite and Auto Standby.
1. Press the "MENU" button to enter main menu.
2. Press "UP" or "DOWN" button to highlight "System Setup", press "RIGHT" button to enter the System Setup menu.
3. Press "UP" or "DOWN" cursor button to highlight the desired item and press "OK" button to enter the sub-menu.
4. Press "EXIT" button to exit

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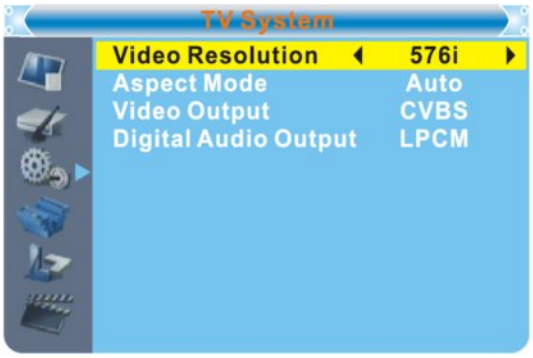
8.2 Language

This menu allows you to set Language.

8.3 TV System

This menu allows us to set Video Resolution, Aspect Mode, Video Output and Digital Audio Output.

Video Resolution: 480i/480p/576i/576p/720p/1080i/1080p
Aspect Mode: Auto/4:3PS/4:3LB/16:9
Video Output:: CVBS/RGB
Digital Audio Output:: LPCM Out/ BS Out



NOTE:

In some TV sets, when you connect ReDi 220 MP by HDMI cable, you may need to change Video Output: option to YUV+CVBS in order to work properly.

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8.4 Local Time Setting

This menu allows you to set the region and time.

Region: This menu is used for changing the region setting.

GMT Usage: This menu is used for opening the usage of GMT. The options are: Off / On

GMT Offset: This menu is valid only when selected "Uesr Define" in GMT Usage menu.

The GMT offset range is "-11:30 ~ +12:00", increasing half hour progressively.

Date: "Date" and "Time" menus are valid only when selected "Off" in GMT Usage menu.

Time: Press numeric button to input the time.

8.5 Timer Setting

This menu allows us to set the program timer.

You can set 8 timers.

Timer Mode: Off/Once/Daily

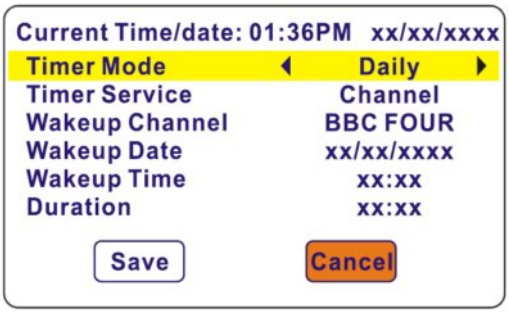
Timer Service: Channel/Record

Wakeup Channel: You can select a desired channel as the wakeup channel.

Wakeup Date: Press numeric button to input date.

Wakeup Time: Press numeric button to input the time.

Duration: Press numeric button to input the duration time.



8.6 Parental Lock

This menu allows you to protect the installation menu and channel, and change the Password.

1. In "System Setup" menu, select "Parental Lock" and press "OK" button, you are asked to input a password (the default password is"0000").

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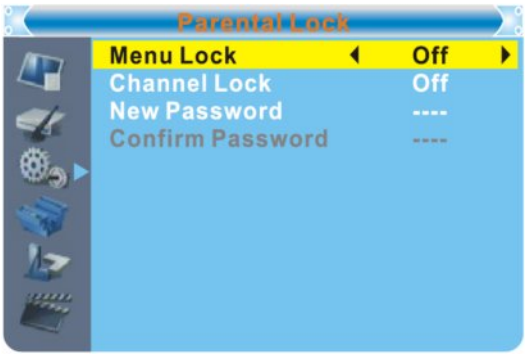
2. After inputting the correct password by pressing numeric buttons, the parental lock menu appears.

Menu Lock: To lock the Edit channel/ installation/System setup/ Tools/REC menu. When you want to enter these menus, you must input the password. You can set menu lock to on/off.

Channel Lock: Off/AGE 10/AGE 12/AGE 16/AGE 18

New Password: To change the password.

Confirm Password: To confirm the new password.



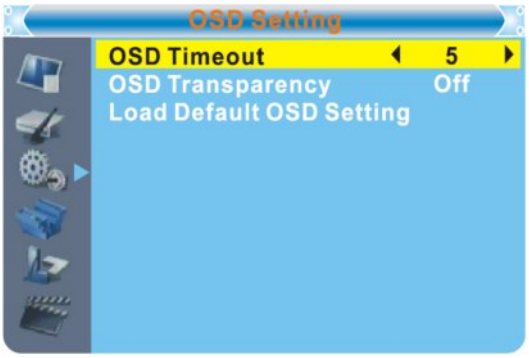
8.7 OSD Setting

This menu allows you to set OSD Timeout, OSD Transparency and load default OSD setting.

OSD Timeout: 1-10

OSD Transparency: To set the OSD transparency to Off/10%/20%/30%/40%.

Load Default OSD Setting: To clear all OSD setting and reset parameters as default value.



8.8 Favorite

This menu allows you to rename the favorite group.

1. In Channel menu, select "Favorite", press "OK" button to enter Favorite menu.

2. Select desired group, press "OK" button to open the mock keypad. Input letter and numeric one by one by pressing the cursor button and press "OK" button to confirm. After finishing input, highlight "OK" on mock keypad to confirm, you change Favorite group name successfully.

3. Press "EXIT" button to quit the group rename menu.

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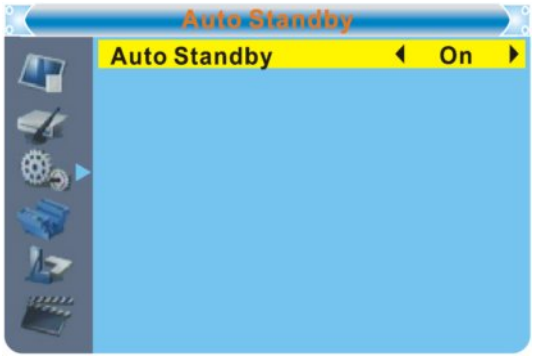
8.9 Auto Standby

On: No command to STB on front panel or Remoter in 3 hours and no timer event, the STB will enter standby mode automatically.

Off: The STB can't enter standby mode automatically.



9. TOOLS

9.1 Tools main menu

1. Press the "MENU" button to enter main menu.
2. Press " UP" or " DOWN " button to highlight "Tools", press "RIGHT" button to enter the Tools menu.
3. Press "UP" or "DOWN" cursor button to highlight the desired item and press "OK" button to enter the sub-menu.
4. Press "EXIT" button to exit.

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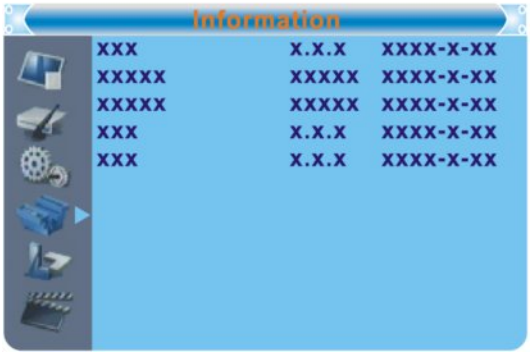
9.2 Information

This menu can display some parameters of bootloader, HDCP Key, maincode, radioback, countryband and userdb information in this STB.

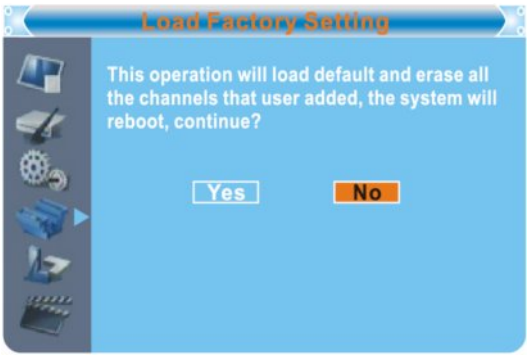
1. In "Tools" menu, select "Receiver Information", press "OK" button to open receiver information window.
2. Press "EXIT" button to exit.



9.3 Load Factory Default

This menu allows you to re-set the device back to factory settings and clear all existed channels.

1. In the "Tools" menu, select "Load Factory Default" and press "OK" button. You are asked to input a password(the default password is"0000").
2. A confirmation window is displayed. Select "Yes" to return back to factory settings and clear all channels. Select "No" to cancel back to factory settings.
3. Press "EXIT" button to exit.



9.4 Software Upgrade

We offer the functions for user to upgrade software version by OTA or by USB.

1. Enter "Tools" menu, select "S/W Upgrade by OTA" or "Upgrade by USB", press "OK" button and the Software Upgrade menu will be shown.
2. Press cursor button to select the desired item, then highlight "Start" and press "OK" button to start the upgrade.
3. Press "EXIT" button to exit.

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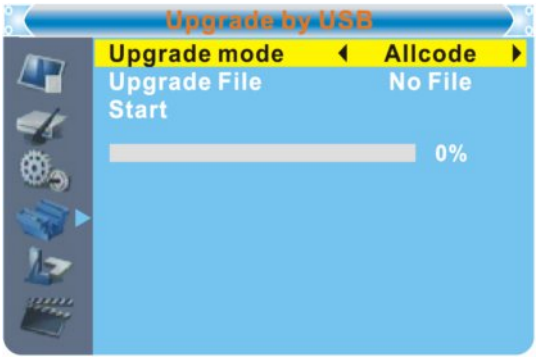
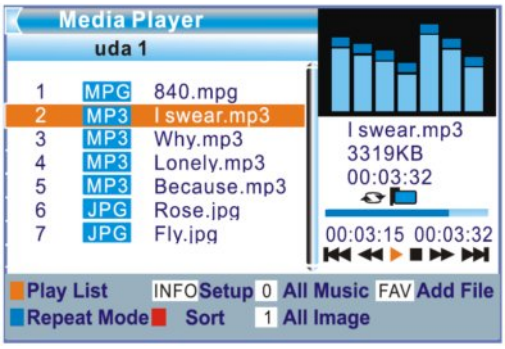


9.5 USB Device

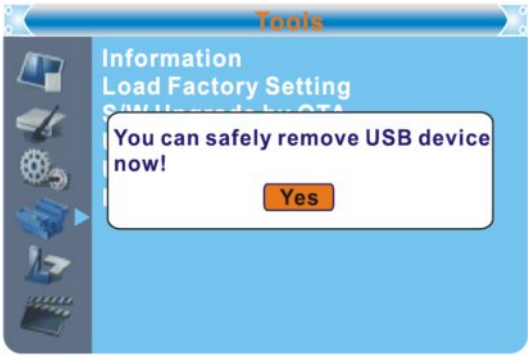
This function allows you to play files from USB port .

1. In "Tools" menu, select "Media+", press "OK" button to enter Media Player menu.
2. Press "UP" or "DOWN" cursor button to select a desired item, and press "OK" button to play the desired files.
3. Press "EXIT" button to exit.



9.6 Remove USB device safely

In "Tools" menu, select "Remove USB device safely", Press "OK" button to confirm. Then a window is displayed. Press "OK" button again.



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10. GAME

10.1 Game

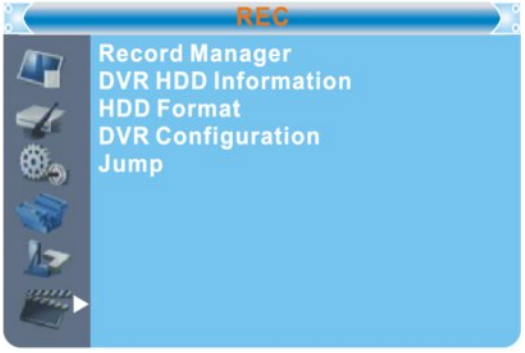
This menu allows you to play games.

1. Press the "MENU" button to enter main menu.
2. Press "UP" or "DOWN" button to highlight "Game", press "RIGHT" button to enter the Game menu.
3. Press "UP" or "DOWN" cursor button to highlight the desired item and press "OK" button to enter the game.
4. Press "EXIT" button to exit.

11. REC

11.1 REC

1. Press the "MENU" button to enter main menu.
2. Press "UP" or "DOWN" button to highlight "REC ", press "RIGHT" button to enter the REC menu.
3. Press "UP" or "DOWN" cursor button to highlight the desired item and press "OK" button to enter the sub-menu.
4. Press "EXIT" button to exit.



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11.2 Record Manager

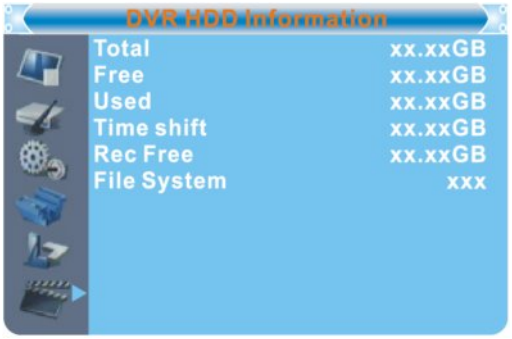
This menu allows you to play the recorded files.

1. In "REC" menu, select "Record Manager" and press "OK" button to enter Record Manage menu.
2. Press "UP" or "DOWN" cursor button to select a desired item, and press "OK" button to play the desired files.
3. Press "EXIT" button to exit.

11.3 DVR HDD Information

This menu can display some parameters of the Removable Disk.

1. In "REC" menu, select "DVR HDD Information", press "OK" button to open DVR HDD information window.
2. Press "EXIT" button to exit.



11.4 HDD Format

This menu allows you to format the disk.

1. In "REC" menu, select "HDD Format", press "OK" button to open HDD Format menu.
2. Highlight "Storage Partition", press "LEFT" or "RIGHT" cursor button to change Partition.
3. Highlight "Format", press "OK" button, a window appears.

Select FAT/NTFS, press "OK" button to format.

Select "Cancel", Press "OK" button to cancel.

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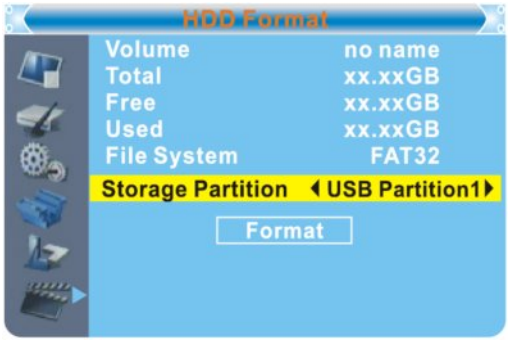
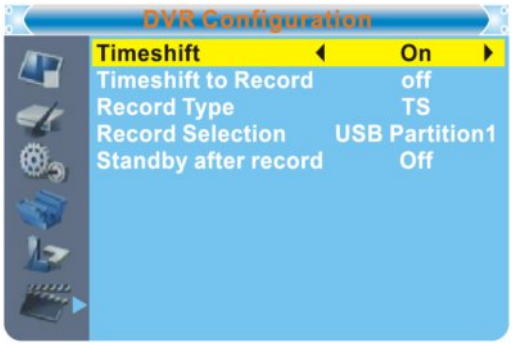


Note: Be careful the format option will erase all data from you disk.

11.5 DVR Configuration

This menu allows us to set the DVR Configuration.
Press "UP" or "DOWN" cursor button to select desired item, press "LEFT" or "RIGHT" cursor button to change the setting.

TimeShift time(min): On/Off
Record Type: TS/PS
TS: Transportation stream which includes information like teletext, subtitle, epg etc.
PS: Program stream which will be packeted with the file format of *.mpg and be also playbacked by PC or other devices.
Record Selection: You can press "LEFT"or "RIGHT" cursor button to change Selection.
Standby after record: On/Off



11.6 Jump

1. Press "Left" or "Right" button to switch the jump time.
The option is 30 second, 1 min, 5 min, 10 min, 30 min.
2. When you play the record program, press the "PREV" or "NEXT" button can jump to previous and next chapter to watch it.

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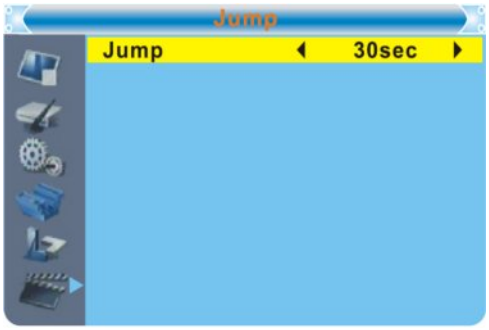

12. TIMESHIFT/ RECORD

Plugging an external Mass Storage Device on the USB port gives you access to Time Shift/Record a broadcast programme.
- Pause a broadcast programme and continue watching it later (Time Shift)
- Record a broadcast programme.
- When the space available on the Mass Storage Device runs out, recording operation of
broadcast will stop.

NOTE: Please use USB 2.0 disk when recording or timeshift. For timeshift and recording feature, you need take bigger size USB pen driver or HDD (>2GB) for recording.

12.1 Time shift

The digital receiver ReDi 220MP gives you the ability to record and watch one program interfacing with the viewing time. All you have to do is to connect an external hard drive or a USB stick in the usb port of the device.
With this function you can:
Pause the program and continue to see if another time.

NOTE: For proper operation of TIME SHIFT it is recommend using a storage device that supports USB 2.0 and has high speed read /write. Also if it is possible it is recommended to use a USB stick or HDD with high storage space. The product can support up to 2TB disks

The TIME SHIFT is a feature where you can simultaneously track, pause or to go back and forth when you are watching a program. For example, while watching your favorite show someone rings the door bell. No problem. Just activate the function bt pressing “Pause” button and the press “Pause” again to freeze the image. The device then start to record the program and when you return you can resume viewing from where you left.

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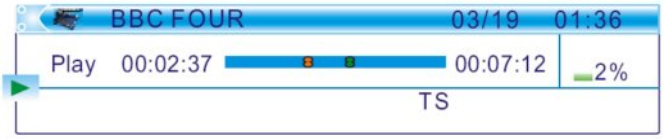
• **Enable TIME SHIFT**

- To use TIME SHIFT press <PAUSE> and a bar with the time when the recording is started (right) will appear. From this moment and forth the channel program will be recorded.

Each time you wish to pause or rewind the program a new bar will appear. Notice that now the bar has 2 times. The right is the normal time showing the on going time from the beginning when started Time Shift and the left is the play backed time according to the time you choose to watch of the recorded program.



During TIME SHIFT, it is possible to do the following.
- Press "PAUSE" to pause the program and <PLAY> to continue watching later.
- Press "STEP FORWARD" or "FORWARD" to fast forward the recorded program at specified time steps according to “Jump” settings(30 Mon - 30 minutes) or at 2χ, 4x, speed etc respectively.
- Press "STEP BACKWARD" or "BACKWARD" to quickly rewind the recording at specified time steps according to “Jump” settings (30 Mon - 30 minutes) or at 2χ, 4X, speed etc, respectively.
This choices affect only the recorded program, and not the function of TIME SHIFT.
To return to the normal playing time press the "STOP" and then the <EXIT>. The TIME SHIFT will continue to record but you will watch the normal time of the program

• **Stop TIME SHIFT**

The TIME SHIFT is switch off when you change the channel or if you enter the main menu

NOTE:
• The TIME SHIFT is disabled when you activate it for a specific channel and you have scheduled a recording (PVR) to another channel. When that recording starts the device will take you to that channel automatically and it will deactivate Time Shift to the other
• The TIME SHIFT can be activated while recording a program, but only for that channel you are recording.

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12.2 Personal Video Recording (PVR)

- Instant Recording

With this feature, with a touch of a button you can write a program you are watching.

- Press <RECORD> button on your remote to immediately start recording the program you are watching
- Pressing the button again <RECORD>, you can adjust the duration of the recording.
- Press <STOP> button to stop recording. A window will appear.
- Select YES to stop recording. Select NO to resume recording.

- Scheduled Recording

Apart from the operation of direct recording, the device can be scheduled to write a program in the future.
-Press and the <Menu> button and select <settings>, <Timer Settings>
This menu lets you set the timer for a recording.

Time Mode: Off/Once/Daily
Time service: Record
Wakeup Channel: Set the channel you want to record.
Wakeup Date: Press OK and then the numbers to enter the date of recording.
Wakeup Time: Press OK and then the numbers to enter time you want the device to start writing.
Duration: Press OK and then the numbers to enter the duration of the recording

To see all the programs you have recorded press :
1. Menu <Rec&Media> select “Record Manager” press OK.
2. Press the Up and Down arrow keys to select the desired entry and press the OK to play the file.
3. Press <EXIT> on the remote to exit the menu.

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Note :

- When you write a program in a particular channel you can watch another of the same group of four digital channels, at the same time you make the record.
- When you have programmed a recording for a channel and you are watching another with the time shift activated when the recording will start the device automatically deactivate Time Shift and takes you to the channel that is programmed to be recorded.
- During the time that a recording takes place the Time Shift function can be activated in parallel with the recording only for that specific channel and not for anyone else.

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13. TROUBLESHOOTING

In some region, the digital terrestrial signal may be weak. So you'd better use an antenna with builtin signal booster.

Problem	Possible cause	What to do
Standby light not lit	Mains lead unplugged. Mains fuse blown.	Check mains lead Check fuse
No signal found	Aerial is disconnected. Aerial is damaged. Out of digital signal area.	Check aerial lead. Check aerial. Check with signal provider
No picture or sound	Scart /AV is not selected as a video source on your TV.	Change the TV source
No response to remote control	Receiver off. Handset not aimed correctly. Front panel obstructed. Hand set batteries exhausted.	Plug in and turn on plug. Aim handset at front panel. Check for obstructions. Replace handset batteries.
Forgotten channel lock code		Re-install channels to cancel channel lock.
Forgotten menu lock code		Contact help line.
The remote control will not operate your device	(1) The batteries in your remote control need replacing. (2) There is an obstruction blocking the signal path between the remote control and the box.	(1) Replace the batteries. (2) Check that there is nothing in the way of the path between the remote control and the receiver.
After moving the STB to another room you find you are no longer able to receive digital reception	The aerial feed for the new point may come through a distribution system which may reduce the digital signal received by the box.	Try a direct feed from the antenna.

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14. TECHNICALSPECIFICATIONS

Power Voltage	AC 220V / 240V 50-60Hz		
Power Consumption	< 8 W		
Video decoder	MPEG-2 MP@HL, AVC/H.264 HP @L4.1 MPEG-4 ASP SUPPORTED		
Audio decoder	MPEG-1 Layer 1,2/PCM/HE-AAC V1.0 ICE958 SPDIF		
Video output ratio	Auto/4:3PS/4:3LB/16:9		
Video resolution	480i/480p/576i/576p/720p/1080i/1080p		
Recording Format	Video: dvr, mpg		
Media Player Format	Audio	mp3	
	Image	jpg, bmp	
	Video	TS	**File type:** *.ts /*.tp/*.trp **Video Codec:** MPEG2 MP@ML H.264 MP/HP **Max Resolution:** 1920 x 1080p **Audio:** MPEG layer 1/2/ AAC
		MPG	**File type:** *.mpg **Video Codec:** H.264 BP/MP/HP MPEG4 SP/ASP,Xvid **Max Resolution:** 1920 x 1080p **Audio:** MPEG layer 1/2
		MP4	**File type:** *.mp4 **Video Codec:** MPEG2 MP@ML, H.264 MP/HP MPEG4 SP/ASP,H.263/Xvid **Max Resolution:** 1920 x 1080p **Audio:** MPEG layer 1/2/ AAC
		AVI	**File type:** *avi **Video Codec:** MPEG2 MP@ML, H.264 MP/HP MPEG4 SP/ASP,H.263/Xvid **Max Resolution:** 1920 x 1080p **Audio:** MPEG layer 1/2/ AAC
		MKV	**File type:** *mkv **Video Codec:** H.264 BP/MP/HP MPEG4 SP/ASP,Xvid, MPEG2 MP@ML, H.264 MP/HP, MPEG4 SP/ASP,H.263/Xvid **Max Resolution:** 1920 x 1080p **Audio:** MPEG layer 1/2/ AAC
OSD Menu	Multilingual		
Teletext	Multilingual		

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Tuner		
	RF Input Connector	IEC FEMALE
	Loop Through	IEC Male
	Receiving Channel Range	174~230MHz, 470~862MHz
	Modulation	QPSK/16QAM/64QAM
	Band Width	6 / 7/ 8 MHz
Outputs		
	1 x HDMI	
	1 x USB 2.0 (Host)	
	1 x Scart	
	1 x Coaxial	
	3 x RCA (CVBS/ R/ L)	
Dimensions		
	W x D x H 188x 120 x 38 mm	
Weight	496 gr	

NOTE: Design and Specifications are subject to change without notice.

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